

Search Forms

Search

Results

Help

User Searches

Preferences

Logout

Refine Search

Search Results -

Terms	Documents
L5 same (drug screening)	0

Database:

US Pre-Grant Publication Full-Text Database
 US Patents Full-Text Database
 US OCR Full-Text Database
 EPO Abstracts Database
 JPO Abstracts Database
 Derwent World Patents Index
 IBM Technical Disclosure Bulletins

Search:

L6

Refine Search

Recall Text

Clear

Interrupt

Search History

DATE: Thursday, January 11, 2007 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

Set Name **Query**

side by side

Hit Count **Set Name**

result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ

<u>L6</u>	L5 same (drug screening)	0	<u>L6</u>
<u>L5</u>	L2 same (diabetes)	2	<u>L5</u>
<u>L4</u>	L1 same (diabetes)	31	<u>L4</u>
<u>L3</u>	L2 same (lpf1 promoter or pdx1 promoter)	2	<u>L3</u>
<u>L2</u>	L1 same (transgenic)	4	<u>L2</u>
<u>L1</u>	(GPR40)	59	<u>L1</u>

END OF SEARCH HISTORY

L5 6 L4 AND PY<=2003

=> d his

(FILE 'HOME' ENTERED AT 17:42:22 ON 11 JAN 2007)

FILE 'MEDLINE, AGRICOLA, CAPLUS, SCISEARCH, BIOSIS' ENTERED AT 17:42:50
ON 11 JAN 2007

L1 177 S (GPR40)
L2 1 S L1 AND (TRANSGENIC OR KNOCKOUT OR GENE DISRUPTION)
L3 58 S L1 AND (DIABETES)
L4 39 DUP REM L3 (19 DUPLICATES REMOVED)
L5 6 S L4 AND PY<=2003

=> d l2 ti so au ab

L2 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN
TI Medium and long chain fatty acids and eicosanoids activate G
protein-coupled receptor GPR40 and regulate insulin secretion
from pancreatic β cells
SO PCT Int. Appl., 257 pp.
CODEN: PIXXD2
IN Hinuma, Shuji; Hosoya, Masaki; Ito, Yasuaki; Kobayashi, Makoto; Tanaka,
Hideyuki; Okubo, Shoichi; Fujii, Ryo; Kizawa, Hideki; Kawamata, Yuji; Ogi,
Kazuhiro; Harada, Masataka; Fukusumi, Shoji
AB Use of (1) a G protein-coupled receptor and (2) a fatty acid or an
eicosanoid for screening compds. capable of modulating the binding of the
above receptor-ligand interactions, as drug candidates or diagnostic
agents, is disclosed. Use of mammals, rodents in particular, more
specifically mouse or rat and their ES cells, transformed with a
GPR40 expression construct or GPR40 gene
knockout reporter gene expression construct, for drug screening is
claimed. Use of antibodies or siRNA specific to GPR40 or
encoding gene for diagnosis or therapy is also claimed. Ligand fishing
expts. in HEK293 cells expressing human GPR40 revealed that a
range of saturated and unsatd. carboxylic acids with carbon chain lengths
greater than six were able to induce an elevation of $[Ca^{2+}]_i$, measured
using a fluorometric imaging plate reader. Expression anal. by quant.
reverse transcription-PCR showed that GPR40 was specifically
expressed in pancreas, with expression in rodent pancreas being localized
to insulin-producing β -cells. A G-protein-coupled receptor,
GPR40, which is abundantly expressed in the pancreas, functions as
a receptor for long-chain free fatty acids (FFAs). Furthermore, the
authors show that long-chain FFAs amplify glucose-stimulated insulin
secretion from pancreatic β cells by activating GPR40. The
authors' results indicate that GPR40 agonists and/or antagonists
show potential for the development of new anti-diabetic drugs. The
authors also cloned GPR40 cDNA from rat, mouse, monkey, and
hamster.

=> d l5 1-6 ti so au ab pi



A service of the National Library of Medicine
and the National Institutes of Health

My NCBI
[Sign In] [Register]

All Databases PubMed Nucleotide Protein Genome Structure OMIM PMC Journals Books

Search **PubMed** for

☒ Limits ☐ Preview/Index **History** ☐ Clipboard ☐ Details

Limits: Entrez Date to 2003/08/18

- Search History will be lost after eight hours of inactivity.
- Search numbers may not be continuous; all searches are represented.
- To save search indefinitely, click query # and select Save in My NCBI.
- To combine searches use #search, e.g., #2 AND #3 or click query # for more options.

About Entrez

Text Version

Entrez PubMed

Overview

Help | FAQ

Tutorials

New/Noteworthy E-Utilities

PubMed Services

Journals Database

MeSH Database

Single Citation Matcher

Batch Citation Matcher

Clinical Queries

Special Queries

LinkOut

My NCBI

Search	Most Recent Queries	Time	Result
<u>#9</u>	Related Articles for PubMed (Select 12629551)	17:31:48	<u>137</u>
<u>#8</u>	Search (GPR40) and (diabetes) Limits: Entrez Date to 2003/08/18	17:30:15	<u>1</u>
<u>#7</u>	Search (GPR40) and (diabetes)	17:29:36	<u>7</u>
<u>#6</u>	Search (GPR40) and (transgenic or knockout)	17:29:02	<u>0</u>
<u>#5</u>	Search (GPR40) and (transgenic)	17:27:58	<u>0</u>
<u>#1</u>	Search GPR40	17:19:05	<u>30</u>

Related Resources

Order Documents

NLM Mobile

NLM Catalog

NLM Gateway

TOXNET

Consumer Health

Clinical Alerts

ClinicalTrials.gov

PubMed Central

[Write to the Help Desk](#)

[NCBI](#) | [NLM](#) | [NIH](#)

Department of Health & Human Services

[Privacy Statement](#) | [Freedom of Information Act](#) | [Disclaimer](#)

Dec 18 2006 06:34:27